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		F	orbes	Inc.									
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<b>V</b> -7									rom: CoreExpress vi				
	Р								l Private Networks, Ir		nal, [online]	, Febru	ary
υv									2000] Retrieved from	:			
	<u></u>							/rfc2764.html		<del> </del>			
	Q								rated Services in the		Architecture	e: An	
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VV.								rfc2212.html					
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RFC 1701, Hanks, Li, Farinacci & Traina, Generic Routing Encapsulation (GRE), [online],

from: http://sunsite.auc.dk/RFC/rfc/rfc1702.html

Pages 1-9, [retrieved on 3/30/00], Retrieved from: <a href="http://sunsite.auc.dk/RFC/rfc/rfc1701.html">http://sunsite.auc.dk/RFC/rfc/rfc1701.html</a> RFC 1702, Hanks, Li, Farinacci & Traina, [online], Pages 1-5, [retrieved on 3/30/00], Retrieved

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FORM PTO-1 (REV. 6-89)	449	<b>\                                    </b>	DEFINITION  en Find Tradema	T OF COMMERCE	Attorney's Docket No. 22013-05976		Serial No.	/849,176
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		Nichols, K., et al. "A Tv Retrieved from the Inte						
		Blake, S., et al. "An Ard						), 2001.
		Retrieved from the Inte						3. 2001.
	D	Shenker, S. et al. "Spe	cification o	f Guaranteed (	Quality of Service", pp	o. 1-21, Se	eptember :	1997.
		Retrieved from the Inte						
		Cisco.com web pages.				iomain Ro	outing" pp	. 1-65 [online]
	ł	[retrieved on March 6, http://www.cisco.com/u	-					
	F	ANX: RADGUARD an				Pane 1 [re	trieved M	arch 30, 20001
		Retrieved from: http://s				ago i i. s	HIGYOL	didii oo, accej
	G	InterAgent® Software [	[online] Enr	ron Broadband	Services, Page 1 [ret	trieved Ma	arch 30, 2	000] Retrieved
		from: http://www.ec.en	nron.com/is	sp/ein/interager	nt.html			·
		What is the EIN?, [online					opyright 1	1997-2000
<b>  </b>		Enron Corp., Pages 1- Solutions for ISPs [onli						- A
	'	1997-2000 Enron Corp				řlevea ivia	iy 6, 2000)	Copyright
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der the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

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	U.S. PATENT DOCUMENTS									
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2</sup> (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear					
W.	AA	5,325,362	06-28-1994	Aziz						

		FOREI	GN PATENT DO	CUMENTS	, <u>, ,</u>	
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		OTHER PRIOR ART - NON PA	ATENT LITERATURE DOCUMENTS	
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449 (REV <del>-0:89</del> )		DEPARTMENT OF COMMERCE ent and Trademark Office	Attorney's Docket No. 22013-0597		Serial No.	849,176	
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	OTHER DOCU	MENTS (Including Author	or, Title, Date, Pertinent	Pages, Et			
VV.	"Border Gateway Pro	tocol (BGP)", copyright 1	989-1999 [online], Re	trieved fr		rnet <ur< td=""><td>kL:</td></ur<>	kL:
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. Vv.	Retrieved from the inte Hanks, S., et al., RFC [online],Retrieved from 1-4 Farinacci, D., et al., R	ernet <url: .src.do<br="" http:="">2 1702, "Generic Routing the internet <url: <="" http:="" td=""><td>c.ic.ac.uk/computing/ Encapsulation Over I //.src.doc.ic.ac.uk/com</td><td>nternet/ri Pv4 Netw puting/in</td><td>fc/rfc1701.tx vorks", Octo ternet/rfc/rfc ch 2000, [or</td><td>xt&gt;, pp. 1 ober 1994 c1702.txt</td><td>4, <u>t</u>&gt;, pp.</td></url:></url:>	c.ic.ac.uk/computing/ Encapsulation Over I //.src.doc.ic.ac.uk/com	nternet/ri Pv4 Netw puting/in	fc/rfc1701.tx vorks", Octo ternet/rfc/rfc ch 2000, [or	xt>, pp. 1 ober 1994 c1702.txt	4, <u>t</u> >, pp.
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Approved for use through 10/31/2002.OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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VV.	CA	IP ENCAPSULATION WITHIN IP, C. Perkins, Standards Track, October 1996, 14 pages	
:/1/	СВ	GENERIC ROUTING ENCAPSULATION OVER IPV4 NETWORKS, S. Hanks, October 1994	

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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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